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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,806	12/19/2006	Daniele Vigo	J1036.0011/P011	6976
24998 7590 01/07/2008 DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW Washington, DC 20006-5403			EXAMINER	
			SHEN, WU CHENG WINSTON	
			ART UNIT	PAPER NUMBER
			1632	· ·
			MAIL DATE	DELIVERY MODE
	•		01/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/577,806	VIGO ET AL.			
Office Action Summary		Examiner	Art Unit			
	-	Wu-Cheng Winston Shen	1632			
	The MAILING DATE of this communication app					
Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Deperiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 19 December 2006-preliminary amendment.					
,	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
5) 6) 7)	Claim(s) <u>1-50</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-50</u> are subject to restriction and/or expressions.	vn from consideration.				
	ion Papers					
	The drawing(a) filed on in (crair a)		Evaminor			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	ıt(s)					
	te of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

1. The preliminary amendment dated 12/19/2006 has been received. Claims 3-8, 11, 15, 17, 19, 22-27, 30, 32-38, 40-50 are amended. Claims 1-50 are pending in the instant application.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- I. Claims 1-8 and 11-50 (each in part), drawn to capsules comprising an outer membrane of a divalent or trivalent metal ion salt of alginic acid, and an internal nucleus comprising a suspension of <u>stem cells</u>, a kit for the preparation of the capsules, and a process for the preparation of the capsules.
- II. Claims 1-8 and 11-50 (each in part), drawn to capsules comprising an outer membrane of a divalent or trivalent metal ion salt of alginic acid, and an internal nucleus comprising a suspension of genetically modified male and female somatic cells, a kit for the preparation of the capsules, and a process for the preparation of the capsules.
- III. Claims 1-9 and 11-50 (each in part), drawn to capsules comprising an outer membrane of a divalent or trivalent metal ion salt of alginic acid, and an internal

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nucleus comprising a suspension of <u>ovarian follicles or ovarian follicular cells</u>, a kit for the preparation of the capsules, and a process for the preparation of the capsules.

- IV. Claims 1-50 (each in part), drawn to capsules comprising an outer membrane of a divalent or trivalent metal ion salt of alginic acid, and an internal nucleus comprising a suspension of gametes, a kit for the preparation of the capsules, and a process for the preparation of the capsules.
- V. Claims 1-9 and 11-50 (each in part), drawn to capsules comprising an outer membrane of a divalent or trivalent metal ion salt of alginic acid, and an internal nucleus comprising a suspension of mammalian embryos, a kit for the preparation of the capsules, and a process for the preparation of the capsules.
- VI. Claims 1-50 (each in part), drawn to capsules comprising an outer membrane of a divalent or trivalent metal ion salt of alginic acid, and an internal nucleus comprising a suspension of biocompatible and/or biodegradable polymer constituting an artificial matrix, a kit for the preparation of the capsules, and a process for the preparation of the capsules.
- 3. The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

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- A) The invention has no special technical feature that defined the contribution over the prior art, or
- B) Unity of invention between different categories of inventions will only be found to exist if specific combinations of inventions are present. Those combinations include:
- 1) A product and a special process of manufacture of said product.
- 2) A product and a process of use of said product.
- 3) A product, a special process of manufacture of said product, and a process of use of said product.
- 4) A process and an apparatus specially designed to carry out said process.
- 5) A product, a special process of manufacture of said product, and an apparatus specially designed to carry out said process.

The allowed combinations do not include multiple products, multiple methods of using said products, and methods of making multiple products as claimed in the instant application, see MPEP § 1850. In this case,

Applicant's claims encompass multiple inventions, multiple products and multiple methods, and do not have a special technical feature which link the inventions one to the other, and lack unity of invention. The common technical feature in all groups, as stated in claim 1, is a capsule. However, this common technical feature cannot be a special technical feature under PCT Rule 13.2 because the feature is shown in the prior art. **Gook et al.** taught the capsule by reporting that human ovarian tissue was cryo-preserved and grafted under the renal capsule of severe combined immuno-deficient (SCID) mice (See abstract on page 417, and Material s and Methods

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on page 418, Gook et al. Development of antral follicles in human cryo-preserved ovarian tissue following xeno-grafting, *Hum Reprod.* 16(3):417-22, 2001).

4. Applicant's claims encompass multiple inventions and do not have a special technical feature which link the inventions one to the other, and lack unity of invention. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

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application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication from the examiner should be directed to Wu-Cheng Winston Shen whose telephone number is (571) 272-3157 and Fax number is 571-273-3157. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the supervisory patent examiner, Peter Paras, can be reached on (571) 272-4517. The fax number for TC 1600 is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wu-Cheng Winston Shen, Ph. D. Patent Examiner
Art Unit 1632

/Valarie Bertoglio, Ph.D./ Primary Examiner AU 1632